

# CURRICULUM VITAE

**NAME:** GAVROS KONSTANTINOS

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**Birth date** 10/9/1955

## *Education*

- Degree of Electronic Engineer by UNIVERSITA DEGLI STUDI DI PAVIA (ITALIA), final thesis: "Power Stations - Operation and Automations", 1983
- PhD in «Monitoring and diagnosis of induction motors», Faculty of Electrical Engineering, Polytechnic University of Bucharest, 2008

## *Managerial Experience*

- 2000-2002, Head of Electrical Engineering Dpt, TEI of West Macedonia
- 2001-2002, Deputy Dean of School of Technological Applications, TEI of West Macedonia
- 2000-2002, Vice President of P.E.S. Industrial Informatics, TEI of West Macedonia
- 2010-2012, Director of Low Currents Sector of Electrical Engineering Dpt, TEI of West Macedonia

## *Professional-Research experience*

- 1/9/1992-4/9/1994, Private Technical Lyceum "Epsilon", General Manager, responsible for Human Resources, responsible for networks and electromechanical facilities operation.
- Since 1997: Director of Control Systems Laboratory, Electrical Engineering Dpt, TEI of West Macedonia
- 1/1/2005-31/12/2006, researcher in Project « Optimization of Combined Solar Systems Efficiency », research Program Archimedes II-Environment.
- 2001-2007: PhD Candidate, researcher in laboratory of «Electrical Machines, Drives and Materials Laboratory, Faculty of Electrical Engineering, Polytechnic University of Bucharest»
- 1/1/2007 - 31/12/2007, participant in Project "Reforming bachelor Studies in TEI of West Macedonia»
- 04/10/2006 - 04/12/2006: Marie Curie Fellowship (contract KnowEnTech MTKI-CT-2005-029758), for research in «Electrical Machines, Drives and Materials Laboratory, Faculty of Electrical Engineering, Polytechnic University of Bucharest».
- 09/01/2007 - 09/03/2007: Marie Curie Fellowship (contract KnowEnTech MTKI-CT-2005-029758), for research in «Electrical Machines, Drives and Materials Laboratory, Faculty of Electrical Engineering, Polytechnic University of Bucharest».

## *Educational experience*

- Since September 1984, lecturer of Electrical Engineering Dpt, TEI of West Macedonia and since October 2013 Associate Professor in « Monitoring and Diagnostic Control of Electrical Machines». Independent teaching of Automation Control Systems in Mechanical Engineering Dpt and Vehicle Engineering Dpt, Automation Control Systems I, Industrial Communications and Electronics I in

Electrical Engineering Dpt and Industrial Communications in Msc in Mechatronics, TEI of West Macedonia. I also developed syllabus in theoretical and laboratory parts of the above subjects. In addition developed and organised Laboratories in the above courses.

#### *Foreign Language*

- Italian : Fluently.
- English: Good

#### *Scientific work apart publications*

1. «Monitoring and diagnosis of induction motors», PhD thesis, Faculty of Electrical Engineering, Polytechnic University of Bucharest.(December 2007).

#### *Publications*

1. Papavasileiou, A., Gavros K., Vasileiadis, V., Savvidis, S., "CAD/CAM interfaces - a review", Intelligent Systems, 2002. Proceedings. 2002 First International IEEE Symposium, (Volume:1 ) pp 378 - 382 vol.1, ISBN: 0-7803-7134-8 (5 αναφορές<sup>1</sup>)
2. A Papavasileiou, E Gegov, K Gavros, "Application of the artificial intelligence methods in CAD/CAM/CIM systems", Annual of the University of Mining and Geology "St. Ivan Rilski" vol.44-45, part III, Mechanization, electrification and automation in mines, Sofia, 2002, pp. 75-79(3 αναφορές<sup>2</sup>)

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<sup>1</sup> 1. Baldovino, R.G. ; Rogelio, J.P. ; Abulencia, G.L. ; Macanip, V.Y., "Optimization of machine process parameters through 2D image layout enhancing and ArtCAM post-processing for 3D machining: Support program for the productivity and competitiveness of the metals and engineering industries", International Conference on Humanoid, Nanotechnology, Information Technology, Communication and Control, Environment and Management (HNICEM), 12-16 Nov. 2014, pp 1 - 4, ISBN: 978-1-4799-4021-9

2. Rashid, H., Shah Alam, Hamid, A.H.A. ; Mohd Noh, M.H. ; Nasir, N., "Study on the possible defects in plastic injection molding for different designs of studs for football boot sole using CAD and CAE technologies and applications", International Conference on Business, Engineering and Industrial Applications (ICBEIA), 2011 , 5-7 June 2011, pp 68 - 72, ISBN:978-1-4577-1279-1

3. Luis Ramos , "Semantic Web for manufacturing, trends and open issues: Toward a state of the art", Computers & Industrial Engineering, Elsevir, article in Press, 2015

4. S. A. Niknam, Q.P. Yang, S. F. Qin, "A Proposed Framework for Agile Reverse Engineering", Proceedings of the 5th WSEAS International Conference on Applied Computer Science, Hangzhou, China, April 16-18, 2006 (pp886-891)

5. Goyal, Khushdeep, Jatinder Madan, and B. S. Pabla. "Current Issues in CAD Model Data Exchange: A Review" *International Journal of Engineering Studies* Volume 2, Number 3 (2010) pp 329-336.

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1. K.M. Saridakis, A.J. Dentsoras, "Soft computing in engineering design - A review", *Advanced Engineering Informatics*, 22 (2008) pp 202-221

2. Dobrinka PETKOVA Petar NENCHEV Veselina VASILEVA, "MODELS AND INVESTIGATION OF CAD SYSTEMS", *Journal of MACHINE DESIGN: On the occasion of 47th anniversary of the Faculty of Technical Sciences 2007 (1960):* 27-32.

3. Vassilis Mouliantitis, Kostas Saridakis , Stavros Papageorgiou , Vasileios Syrimpeis , Argiris Dentsoras, Nikos Aspragathos, "Application Of Soft Computing Techniques In The Design Of Robot Grippers", *International Conference On Engineering Design, Iced'07* 28 - 31 August 2007, Cite Des Sciences Et De L'industrie, Paris, France

3. A Papavasileiou, E Gegov, K Gavros, "METHODS FOR DECISION - MAKING AND RISK ASSESSMENT IN THE DESIGN OF TECHNOLOGICAL EQUIPMENT", Annual of the University of Mining and Geology "St. Ivan Rilski" vol.44-45, part III, Mechanization, electrification and automation in mines, Sofia, 2002, pp. 71-73 (1 αναφορά<sup>3</sup>)
4. N.Taousanidis and K.Gavros, "MODELLING, SENSITIVITY AND OPTIMIZATION OF A SOLAR COMBISYSTEM", Proceeding of the International Conference Metrology & Measurement Systems - METSIM'2003, Bucharest, 30-31 octobre 2003, ISBN: 973-8067-86-3, Electra ed(s), 2003, p. 9-17
5. N.Taoussanidis, K.Gavros, "MICROCONTROLLER BASED THERMAL ENERGY METERING FOR SOLAR WATER HEATERS", Buletinul Institutului Politehnic din Iasi, tomul L(LIV), Fasc.5B, pp 900-905, 2004 (presented also in 3<sup>rd</sup> Int. Conf. on Electrical and Power Engineering - EPE 2004, Iasi, Romania, 7-8/10/2004)
6. Sanda Victorinne PATURCA, Mircea COVRIG, Stefan VELICU, Konstantinos GAVROS, "SIMULATION OF THE DYNAMICS OF AN ECCENTRIC POWER PRESSER DRIVEN BY AN INDUCTION MOTOR USING DIRECT TORQUE CONTROL (Advanced Topics in Electrical Engineering ATEE'2004 4<sup>th</sup> International Symposium ISBN 973-7728-31-9)
7. Melcescu, O. Androne, M. Covrig, K. Gavros, "SISTEM DE MONITORIZARE A FUNCȚIONĂRII MOTORULUI ASINCRON TRIFAZAT", Advanced Topics in Electrical Engineering ATEE'2004, 4<sup>th</sup> International Symposium ISBN 973-7728-31-9
8. Alexandru F. Andrei, Mircea Covrig, Leonard M. Melcescu and Konstandinos Gavros, "SYSTEM FOR THREE PHASE INDUCTION MOTOR MONITORING", 5<sup>TH</sup> INTERNATIONAL CONFERENCE ON ELECTROMECHANICAL AND POWER SYSTEMS October 6-8, 2005 - Chisinau, Rep.Moldova
9. Konstandinos Gavros, Sanda Paturca, Alexandru F. Andrei, "A Real Time Monitoring System of a Three Phase Squirrel Cage Induction Motor Experiment Results During The Test With Broken Bar And Crosscut Ring Under Different Load Conditions", Advanced Topics in Electrical Engineering, Proceedings of the 5<sup>th</sup> International Symposium, November 24-26 2006, pp 327-330
10. Kostas Gavros, Mihai Priboianu, Alexandru Fransua, Razvan Magureanu, "A MULTIPHASE MODEL OF INDUCTION MOTOR WITH BROKEN BARS AND END RINGS ROTORS", Proceedings of the 13th National Conference on Electrical Drives, CNAE 2006, Ploiesti, Romania, ISSN 1224-8495, Vol. LVIII, No.2 bis/2006, pages 71-77.
11. Taousanidis N., Gavros K. et al, "EFFICIENCY OPTIMISATION OF SOLAR

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<sup>3</sup> 1. John A. Meech, "THE EVOLUTION OF INTELLIGENT SYSTEMS IN THE MINING INDUSTRY", Mineral Process Modelling, Simulation and Control Conference Laurentian University, Sudbury, Ontario June 5-7, 2006

COMBISYSTEMS FOR WATER AND SPACE HEATING", Proceedings of ARCHIMiDIS conferences. Oct-Dec 2007, ISBN: 978-960-88944-2-6

12. N.Taousanidis and K.Gavros, "Solar combisystem monitoring and optimization", Proceedings of the 5<sup>th</sup> International Conference "Metrology and Measurement Systems (METSIM) 2009, pp 87-89,, Bucharest, November 5-6, 2009

13. D. Stimoniaris, T. Kollatou, D. Tsiamitros, K. Gavros, V. Kikis, S. Asimonis, M. A. Zehir, A. Batman, M. Bagriyanik, A. Ozdemir, and E. Dialynas, "Cooperation scheme between KNX and a microgrid control system for enhanced demand-side management", ELECO2015 Conference, paper #40, 26-28 November 2015, Bursa, Turkey. (διαθέσιμο στη Διεθνή Βάση Δεδομένων [ieeexplore.ieee.org](http://ieeexplore.ieee.org) )